UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/688,222	10/16/2000	ANDREW PETER BRADLEY	169.1865	1392

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EXAMINER
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ART UNIT	PAPER NUMBER
2621	

DATE MAILED: 03/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

SUPPLEMENTAL EXAMINER'S AMENDMENT

1.   An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Carl B. Wischhusen on 3/22/2005.

The application has been amended as follows:

20. (Previously Presented) The method according to claim 19, wherein the

universal interpolation kernel is of the form:

$$h(s_x, s_y)_{0 \le \theta \le \pi/2} = \frac{1}{\sqrt{2}} \left\{ h\big((1 - 2\theta/\pi)s_x + (2\theta/\pi)s_y\big)_{c=0.5} \bullet h\big(((2\theta/\pi)s_x + (2\theta/\pi - 1)s_y)w(\theta)\big)_{c=0} \right\}$$

$$h(s_x, s_y)_{\pi/2 < \theta < \pi} = \frac{1}{\sqrt{2}} \left\{ h\big((2\theta/\pi - 1)s_x + (2\theta/\pi - 2)s_y\big)_{c=0.5} \bullet h\big(((2\theta/\pi - 2)s_x + (1 - 2\theta/\pi)s_y)w(\theta)\big)_{c=0} \right\}$$

wherein *h(s)* is defined as:

$$h(s) = \begin{cases} 1, 0 \le |s| \le d \\ (2 - \frac{3}{2}b - c)\left|\frac{s-d}{1-2d}\right|^3 + (-3 + 2b + c)\left|\frac{s-d}{1-2d}\right|^2 + (1 - \frac{1}{3}b), d < |s| \le 1 - d \\ 0, 1 - d < |s| \le 1 + d \\ (-\frac{1}{6}b - c)\left|\frac{s-3d}{1-2d}\right|^3 + (b + 5c)\left|\frac{s-3d}{1-2d}\right|^2 + (-2b - 8c)\left|\frac{s-3d}{1-2d}\right| + (\frac{4}{3}b + 4c), 1 + d < |s| \le 2 - d \\ 0, Otherwise \end{cases}$$

and wherein $s = t/\Delta t$ and $0 \le d < 0.5$.

56. (Previously Presented) The computer readable medium according to claim 55, wherein the universal interpolation kernel is of the form:

$$h(s_x, s_y)_{0 \leq \theta \leq \pi/2} = \frac{1}{\sqrt{2}} \left\{ h\big((1 - 2\theta/\pi)s_x + (2\theta/\pi)s_y\big)_{c=0.5} \bullet h\big(((2\theta/\pi)s_x + (2\theta/\pi - 1)s_y)w(\theta)\big)_{c=0} \right\}$$

$$h(s_x, s_y)_{\pi/2 < \theta < \pi} = \frac{1}{\sqrt{2}} \left\{ h\big((2\theta/\pi - 1)s_x + (2\theta/\pi - 2)s_y\big)_{c=0.5} \bullet h\big(((2\theta/\pi - 2)s_x + (1 - 2\theta/\pi)s_y)w(\theta)\big)_{c=0} \right\}$$

wherein *h(s)* is defined as:

$$h(s) = \begin{cases} 1, 0 \leq |s| \leq d \\ (2 - \frac{3}{2}b - c)\left|\frac{s-d}{1-2d}\right|^3 + (-3 + 2b + c)\left|\frac{s-d}{1-2d}\right|^2 + (1 - \frac{1}{3}b), d < |s| \leq 1 - d \\ 0, 1 - d < |s| \leq 1 + d \\ (-\frac{1}{6}b - c)\left|\frac{s-3d}{1-2d}\right|^3 + (b + 5c)\left|\frac{s-3d}{1-2d}\right|^2 + (-2b - 8c)\left|\frac{s-3d}{1-2d}\right| + (\frac{4}{3}b + 4c), 1 + d < |s| \leq 2 - d \\ 0, Otherwise \end{cases}$$

and wherein *s = t / Δt and 0 ≤ d < 0.5.*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark E. Wallerson whose telephone number is (703) 305-8581. The examiner can normally be reached on Monday-Friday - 6:30-4:00.
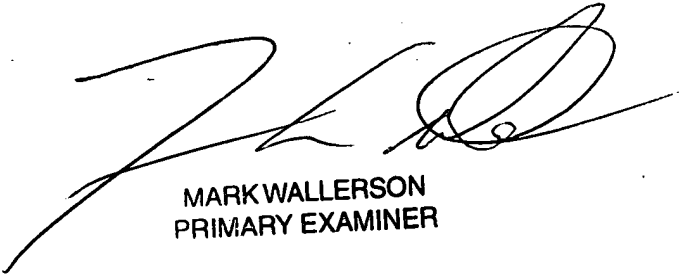
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly Williams can be reached on (703) 305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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